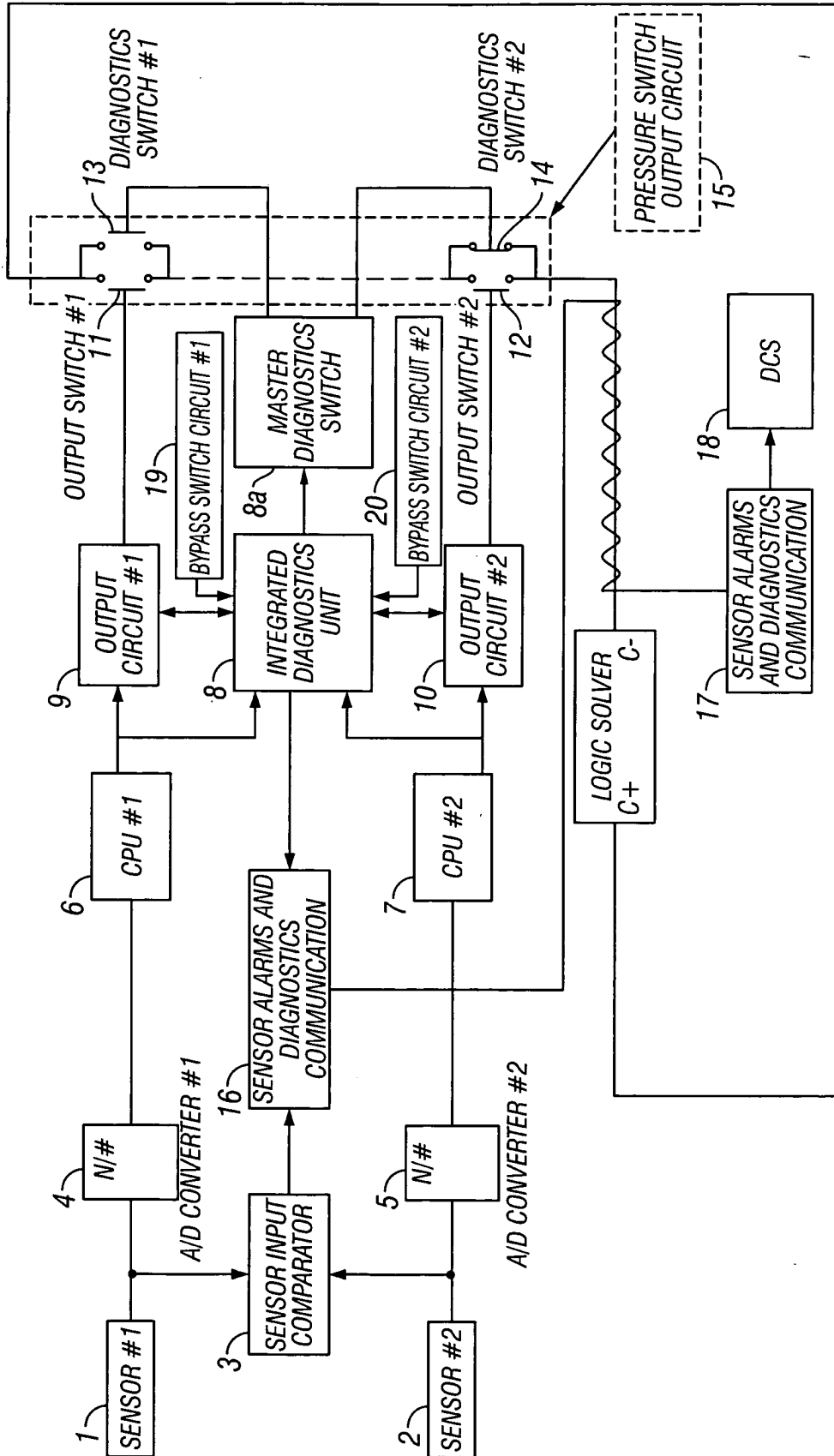TITLE: DUAL SENSOR PROCESS
TEMPERATURE SWITCH HAVING
A HIGH-DIAGNOSTIC ONE-OUT-
OF-TWO VOTING ARCHITECTURE
INVENTOR(S): ANGELA SUMMERS AND
BRYAN ZACHARY
SERIAL NO.: 10 / 664,502

1/3

FIG. 1

TITLE: DUAL SENSOR PROCESS
TEMPERATURE SWITCH HAVING
A HIGH-DIAGNOSTIC ONE-OUT-
OF-TWO VOTING ARCHITECTURE
INVENTOR(S): ANGELA SUMMERS AND
BRYAN ZACHARY
SERIAL NO.: 10 / 664,502

2/3

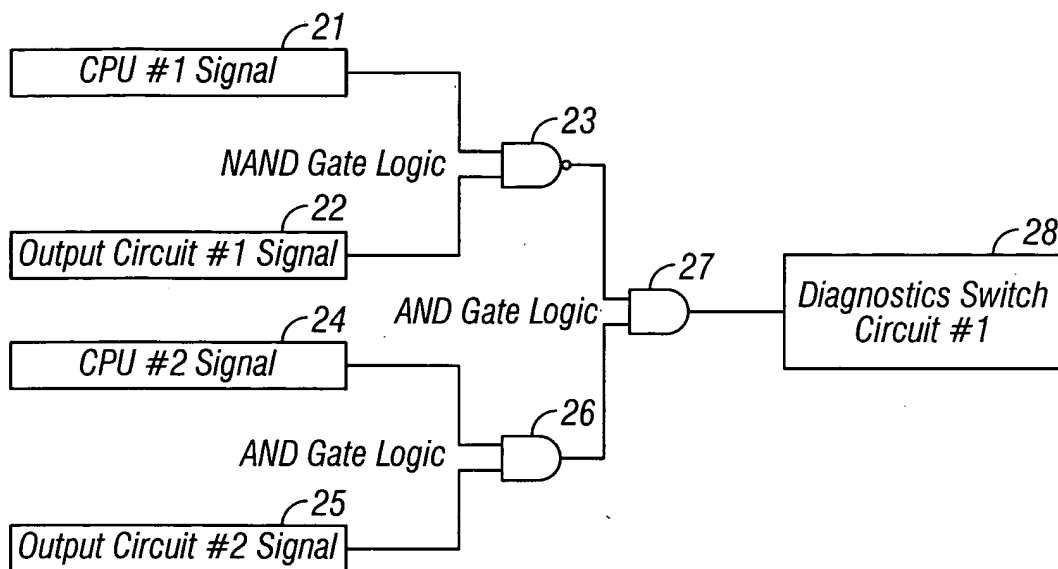**FIG. 2**

Output Circuit	Diagnostics Switch Circuit #1	CPU #1 Signal	Output Circuit #1 Signal	CPU #2 Signal	Output Circuit #2 Signal
Open	Open	0	0	0	0
Open	Open	0	0	1	0
Open	Open	0	0	0	1
Open	Open	0	0	1	1
Open	Open	1	0	0	0
Open	Open	1	0	1	0
Open	Open	1	0	0	1
Closed	Closed	1	0	1	1
Open	Open	0	1	0	0
Open	Open	0	1	1	0
Open	Open	0	1	0	1
Closed	Closed	0	1	1	1
Open	Open	1	1	0	0
Closed	Open	1	1	1	0
Closed	Open	1	1	0	1
Closed	Open	1	1	1	1

FIG. 3

TITLE: DUAL SENSOR PROCESS
TEMPERATURE SWITCH HAVING
A HIGH-DIAGNOSTIC ONE-OUT-
OF-TWO VOTING ARCHITECTURE
INVENTOR(S): ANGELA SUMMERS AND
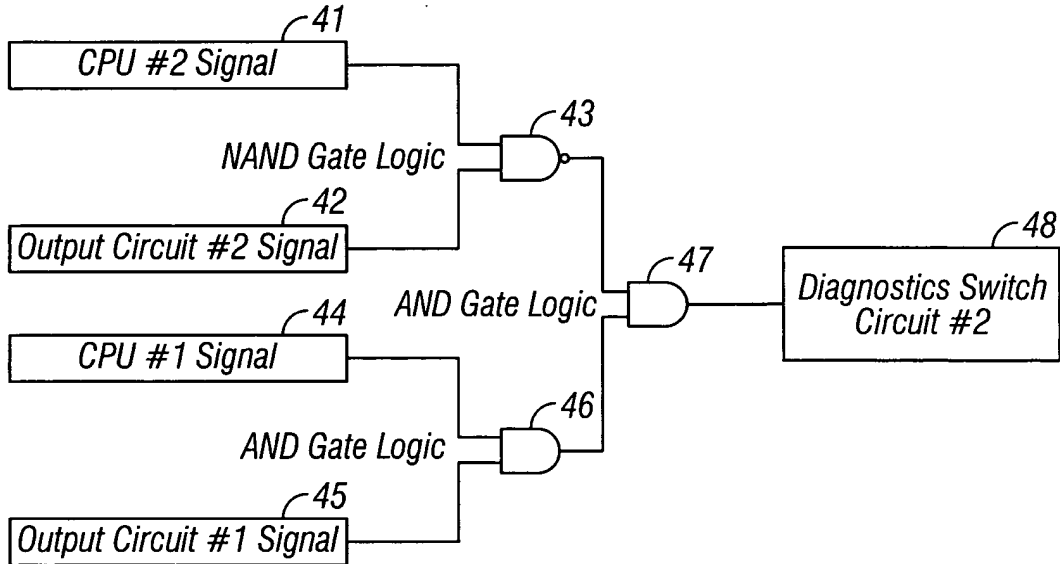BRYAN ZACHARY
SERIAL NO.: 10 / 664,502

3/3

FIG. 4

Pressure Switch Output Circuit	Diagnostics Switch Circuit #2	CPU #2 Signal	Output Circuit #2 Signal	CPU #1 Signal	Output Circuit #1 Signal
Open	Open	0	0	0	0
Open	Open	0	0	1	0
Open	Open	0	0	0	1
Open	Open	0	0	1	1
Open	Open	1	0	0	0
Open	Open	1	0	1	0
Open	Open	1	0	0	1
Closed	Closed	1	0	1	1
Open	Open	0	1	0	0
Open	Open	0	1	1	0
Open	Open	0	1	0	1
Closed	Closed	0	1	1	1
Open	Open	1	1	0	0
Closed	Open	1	1	1	0
Closed	Open	1	1	0	1
Closed	Open	1	1	1	1

FIG. 5